

## CLAIMS

1. A shape-measuring device which measures a shape of a object to be measured in which segments are arranged and bonded in rows while relatively moving the object  
5 in one direction, the shape-measuring device comprising:

a plurality of rollers provided corresponding to the rows of segments and displaced to follow unevenness of an end face of the object while being rotated on the end face due to the relative movement;

10 detection means provided corresponding to each of the rollers and detecting an amount of displacement of each of the rollers; and

calculation means for calculating shape data of the object based on the amount of displacement of the roller detected by the detection means.

2. The shape-measuring device according to claim 1, wherein the detection  
15 means is a contact probe which contacts a roller frame on which the roller is rotatably secured and detects an amount of displacement of the roller frame resulting from the displacement of the roller.

3. The shape-measuring device according to claim 1 or 2, wherein the roller is a  
20 cam follower.